

S E C R E T

23 February 1983

PRESENTATIONS

- |      |   |   |
|------|---|---|
| 25X1 | 1. OC Mission and Why<br>Recapitalization | <div data-bbox="846 688 1263 737" style="border: 1px solid black; width: 257px; height: 23px; margin-bottom: 5px;"></div> Deputy Director of Communications |
| 25X1 | 2. Recapitalization -<br>Foreign Network  | <div data-bbox="846 829 1271 869" style="border: 1px solid black; width: 262px; height: 19px; margin-bottom: 5px;"></div> Chief, Foreign Networks Division  |
| 25X1 | 3. Recapitalization -<br>Domestic Network | <div data-bbox="846 957 1213 999" style="border: 1px solid black; width: 226px; height: 20px; margin-bottom: 5px;"></div> Chief, Domestic Networks Division |
| 25X1 | 4. Recapitalization -<br>Special Projects | <div data-bbox="846 1083 1248 1129" style="border: 1px solid black; width: 248px; height: 22px; margin-bottom: 5px;"></div> Chief, Engineering Division     |

**OFFICE OF COMMUNICATIONS**

25X1

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THE OC MISSION

- Narrative Message (Overseas & Domestic)
- Data Network
- Headquarters Dissemination
- Technical Support to Overseas and Domestic Information Handling Systems
- National Programs
- Secure Voice
- Unclassified Telephone



- Local Utility Nets
- Communications Security

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OVERSEAS NETWORK PROFILE

25X1 ☐ FIELD STATIONS

25X1 ☐ SATELLITE

25X1 ☐ HIGH FREQUENCY RADIO (STATE PRIMARY CARRIER AT 9) *Primary*

25X1 ☐ LEASED LINE ☐

25X1 ☐ MAJOR BASE STATIONS

ALL HAVE SATELLITE/HIGH FREQUENCY RADIO/  
LEASED LINE CAPABILITY

THREE OF THE FOUR HAVE COMPUTER SWITCHING SYSTEMS

25X1 ☐ SATELLITE RELAY FACILITY ☐

25X1 ☐ FIELD STATIONS HAVE OFF-SITE EMERGENCY SECURE COMMUNICATIONS ☐

25X1 ☐ OFF-SITE CRISIS VOICE REPORTING SYSTEMS ☐

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FOREIGN NETWORK

Locations

Staffing

- 1 - Professional Communicator  
2 - Professional Communicators  
3 - Professional Communicators  
4 or more Professional Communicators

Communications performed by other than  
Professional Communicators *will diminish - oc*  
Base Stations *take over*

DOMESTIC NETWORK

Locations

Staffing

- 1 - Professional Communicator  
2 - Professional Communicators  
3 - Professional Communicators

Communications performed by other than  
Professional Communicators

Base Station

Data Communications Center

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GENERAL OUTLINE OF SUPPORT INFRASTRUCTURE

- SCHOOL *40 Instructors 65-70 courses*
- REPAIR AND RETURN
- FIELD TECHNICAL TEAMS
- FIELD WAREHOUSING
- ENGINEERING APPLICATIONS
- OPERATIONAL APPLICATIONS

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# NETWORK SURVIVABILITY

## THERE SHALL BE NO LOSS OF COMMO

- 1 - TRANSMISSION EQUIPMENT FAILURE (*Redundancy*)
- 2 - CRYPTO EQUIPMENT FAILURE
- 3 - CRYPTO COMPROMISE
- 4 - BASE STATION FAILURES
- 5 - NO ACCESS TO OFFICIAL FACILITY
  - TRANSPORTABLE FACILITY
  - OFF-SITE CAPABILITY
- 6 - POWER FAILURE
- 7 - ALTERNATE COMMO PATH FAILURES
  - SATELLITE
  - ALTERNATE SATELLITE
  - HIGH FREQUENCY
  - ALTERNATE HIGH FREQUENCY
- 8 - HUMAN FAILURE
- 9 - OPERATOR TRAINING/EXERCISES

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"NETWORK SURVIVABILITY"  
MIDCAREER (Source: *Anticipation*)

VULGRAPH



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CURRENT NETWORK CONCERNS

1982 13M messages  
1966 5M "

message 2 hrs which  
at one time took 16 hrs

- CAPACITY *Serve no. Cust. & all want more speed  
100<sup>wpm</sup> to 1200-4800 BPS*
- FLEXIBILITY *Handle variety of reqs*
- SURGE REQUIREMENTS
- CONTINGENCY
- OUTAGES *Domestic terminals fail at least  
6X ea yr*
- PRODUCTIVITY
- TRAINING *Training on old & new systems at same time*
- SURVIVABILITY

*90% cables disseminated Auto.*

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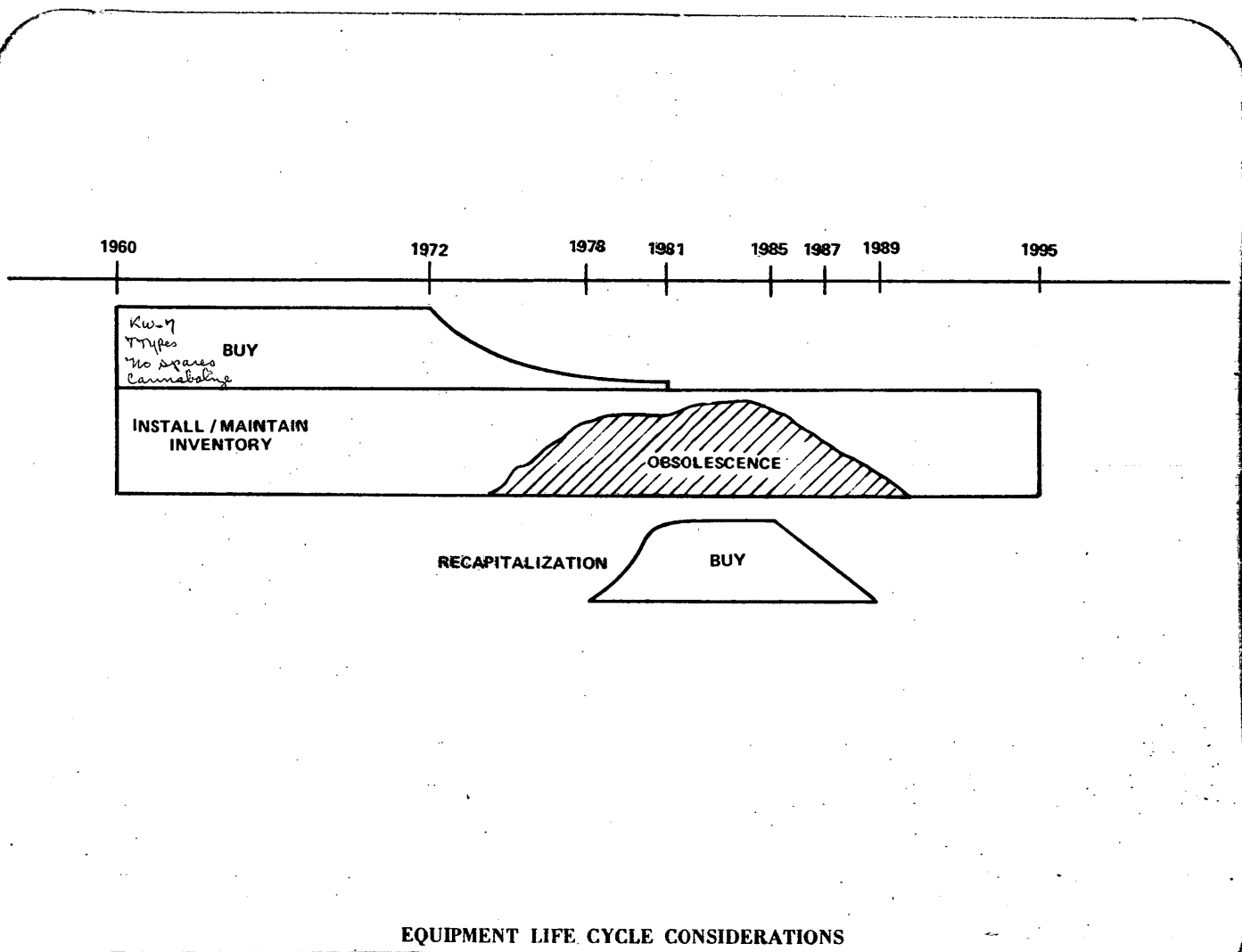
RECAPITALIZATION

CONSIDERATIONS

NETWORK MANAGEMENT OF  
GROWTH/COMPATIBILITY

1. Customer Service Needs/All Source
2. Status of Current Network/Productivity
3. Applying Modern Technology
4. National Policy Needs - PD-53 & NSDD 55
5. CIA Responsibilities
6. Economic Considerations - *Big Bang*
7. Network Profile Projections
8. Impact on Human & Physical Resources
9. Implementation & Deployment Plan

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Recapitalization will provide:

- 25X1 • Up to [ ] SKYLINK satellite communications terminals.
- 25X1 • Upgraded high frequency, terminal, and cryptographic equipment for [ ] foreign field stations and 3 base stations.
- 25X1 • Off-site emergency communications capabilities at up to [ ] overseas locations and appropriate major relay facilities.
- A Metropolitan Distribution System capable of supporting growing Agency-wide information processing systems.
- Modern message switching and network terminal systems (Project MERCURY).
- New message handling/dissemination systems..
- 25X1 • Upgraded equipment for more than [ ] domestic field installations.
- 25X1 • [ ] secure voice instruments. [ ]
- Necessary site preparation/renovations.
- Training, maintenance, and logistics support.

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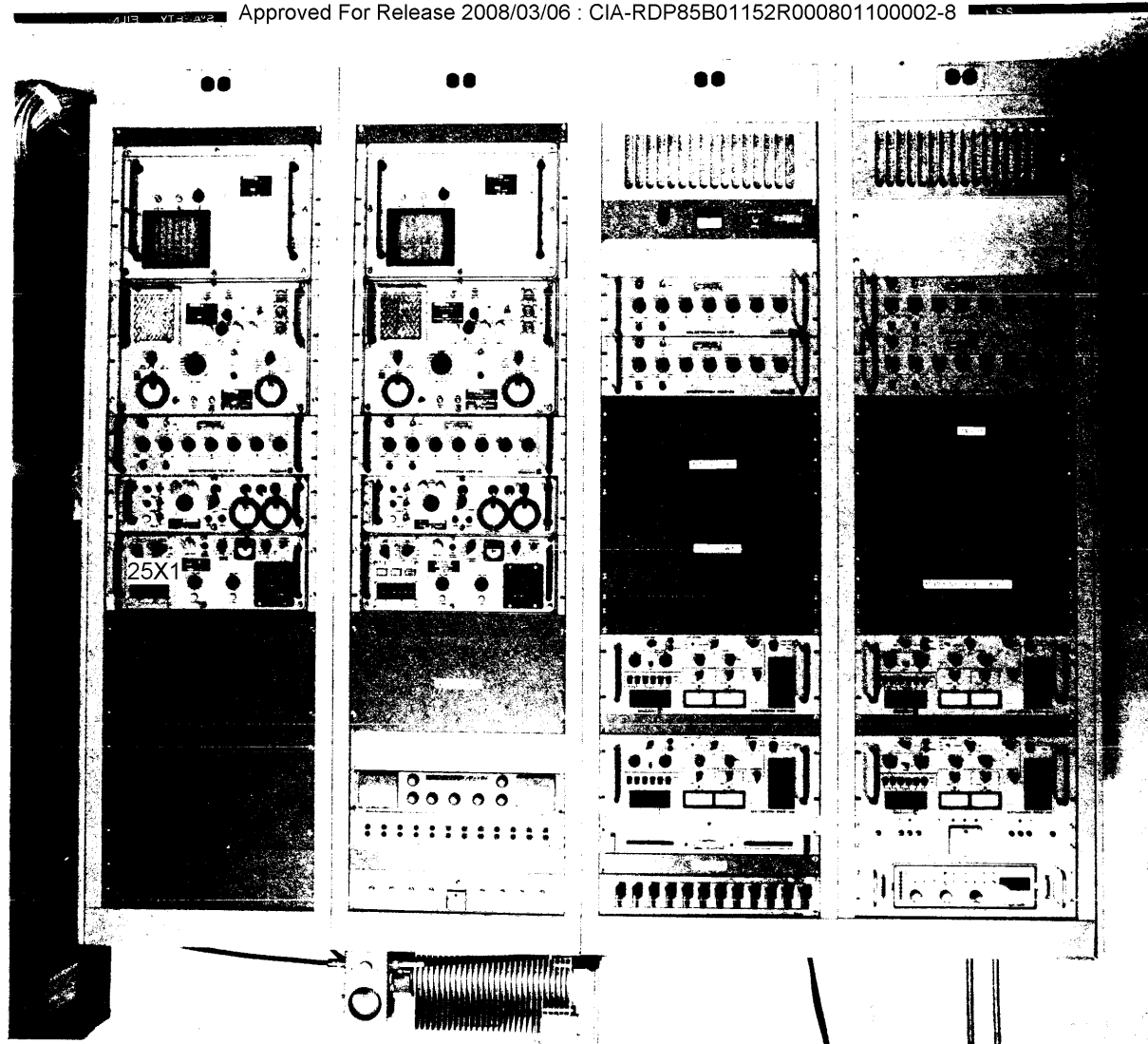
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ACTIVITY	FY-83				FY-84				FY-85				FY-86				FY-87			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
H.F. SYSTEMS PROCUREMENT																				
SYSTEM-DELIVERY			(14)		(52)				(38)				(40)				(26)			160
SYSTEMS INSTALLATION			(10)		(46)				(32)				(32)				(40)			4
PIPELINE (IN TRANSIT)																				10

(DOLLARS IN THOUSANDS)

	FY - 83	FY - 84	FY - 85	FY - 86	FY - 87
H.F. FIELD STATIONS	\$8,197	\$8,197	\$8,628	\$8,628	\$3,023
BASE W/O MINI-RELAY	1,543	940	1,790	1,780	1,780
BASE W / MINI-RELAY	2,702	1,920		2,781	2,682
SUPPORT	240	993	795	795	816
<b>TOTAL</b>	<b>12,682</b>	<b>12,050</b>	<b>11,213</b>	<b>13,984</b>	<b>8,301</b>

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## TERMINAL SYSTEMS

ACTIVITY	FY-83				FY-84				FY-85				FY-86				FY-87			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
TERMINAL SYSTEMS PROCUREMENT	55								39								5			
SYSTEM DELIVERY			40		15						35		4						5	
SYSTEMS INSTALLATION			26		29						29		10							2
PIPELINE (IN TRANSIT)				14								6								3

(DOLLARS IN THOUSANDS)

	FY - 83	FY - 84	FY - 85	FY - 86	FY - 87
MESSAGE PROCESSOR	\$2,909	\$1,862	\$2,009	\$2,026	\$591
OPTICAL READER	2,013	1,391	1,427	952	183
PAPER TAPE PROCESSOR	1,252	865	888	592	114
SUPPORT	442	782	850	425	221

TOTAL

6,616

4,900

5,174

3,995

1,109

## SITE RENOVATION PROGRAM

ACTIVITY	FY - 83				FY - 84				FY - 85				FY - 86				FY - 87				FY - 88			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
SYSTEMS PROCUREMENT PWR A / C <div></div>	14																							
	14																							
	12																							
	40				52				61				45				45							
SYSTEM DELIVERY		40							61								45							
SYSTEM INSTALLATION			40						61															

(DOLLARS IN THOUSANDS)

	FY - 83	FY - 84	FY - 85	FY - 86	FY - 87	
AIR CONDITIONING	\$407	\$555	\$592	\$185	\$370	
POWER	1,375	1,875	2,000	625	1,250	
<div></div>	1,215	1,755	2,700	2,700	1,350	
SITE EXPANSIONS	1,050	1,750	1,050	1,050	1,750	
NOB	886	886	886	1,480	1,480	
BASE STATION FACILITIES	3,192	2,279	2,831	2,201	2,497	
TOTAL	8,125	9,100	10,059	8,241	8,697	

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## RECAPITALIZATION BUDGET SUMMARY

	<u>FY-83</u>		<u>FY-84</u>		
	<u>I</u>	<u>P</u>	<u>I</u>	<u>P</u>	
<b><u>EQUIPMENT PROJECTIONS:</u></b>					
HF RADIO	10	38	46	38	I = INSTALLATION P = PROCUREMENT S = SYSTEMS L = LOCATION R = SITE PREP/RENOVATION
MESSAGE TERMINALS	26	55	46	38	
FACILITIES	16 (L)	40 (S)	18 (L)	52 (S)	
<b><u>COST PROJECTIONS:</u></b>					
(FY-82 Dollars in Thousands)					
EQUIPMENT	240	12,442	993	11,057	
MESSAGE TERMINALS	442	6,174	782	4,118	
FACILITIES	3,981 (R)	4,144 (R)	4,459 (R)	4,641 (R)	
TOTAL	4,663	22,760	6,234	19,816	
MAINTENANCE		3710		1,000	
TRANSPORTATION				2,585	

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HF Equipment

FAN 1040	48 PRS Equipment plus accessories	
	FY-83 Budget	\$10,474K
	Prewired racks, antennas, barry modems, not yet ordered.	
	SUB TOTAL:	\$6,382K

Terminal Equipment

FAN 1060	TERP II A - 62	
	TERP II Accessories	3,278
	OCR's - 33	268
	HSPTRP CXK-307 - 105	1,606
	FPA	1,220
	FY-83 Budget	125
	\$ 6,616K	
	SUB TOTAL:	<u>\$6,497K</u>

Site Preparation and Renovation

FAN 1010	Survey Costs, S/E, A/C	
	Generator	\$1,630K
	T & I Shop Franconia	
	Contractor Support	200
	MEAR Teams	
	Installation Techs.	
	T & I Techs.	
	FY-83 Budget	1,176
	\$8,025K	
	SUB TOTAL:	<u>\$3,006</u>

TOTAL:	\$15,885K
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METROPOLITAN DISTRIBUTION SYSTEM, MDS

- DEFINITION: MDS ADDRESSES THE TRANSMISSION OF VOICE AND DATA INFORMATION WITHIN & AMONG AGENCY FACILITIES & OTHER GOVERNMENT AGENCIES IN WASHINGTON METROPOLITAN AREA.
- OBJECTIVE: TO PROVIDE ESSENTIAL TRANSMISSION SERVICES REQUIRED BY AGENCY'S INFORMATION PROCESSING SYSTEMS
- APPROACH: MODERNIZE, EXPAND & ENHANCE SERVICES AVAILABLE TODAY USING EXISTING NETWORK ARCHITECTURE AND OFF-THE-SHELF TECHNOLOGY.
- COMPONENTS: MICROWAVE RADIOS, MILLIMETER WAVE RADIOS, MULTIPLEXERS CONCENTRATORS, SECURE WIRE GRIDS, COAXIAL & FIBER OPTIC CABLES BUS SYSTEMS.

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COM 11-82

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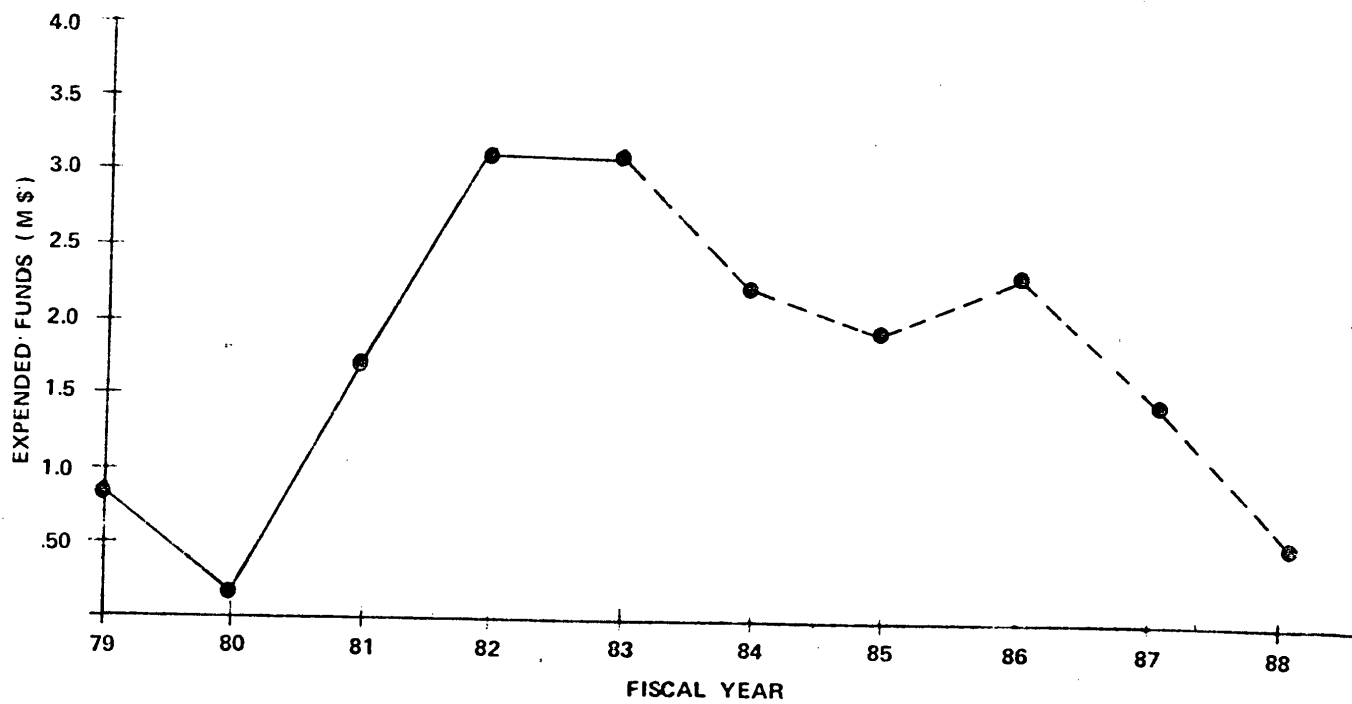
## FY-84 MDS PROGRAM

- |   |         |
|---|---------|
| - CONSTRUCT SECURE WIRE GRID FOR [REDACTED]   | \$ 600K |
| - CONSTRUCT SECURE WIRE GRID FOR [REDACTED]   | 400K    |
| - PROCURE TRANSMISSION MULTIPLEXERS (VOICE & DATA)<br>TO BEGIN REPLACEMENT OF EXISTING OBSOLETE EQUIPMENT<br>(CO-1, & CY-104) | 400K    |
| - PROCURE INSTALLATION MATERIAL FOR MILLIMETER WAVE<br>RADIOS PURCHASED IN FY-83  | 105K    |
| - ESTABLISH MAINTENANCE CONTRACTS (3) FOR TRANSMISSION<br>EQUIPMENT PURCHASED IN FY-83  | 185K    |
|   | <hr/>   |
| TOTAL   | \$1735K |

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HSTS FUNDING PROFILE





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HSTS SECURE VOICE TELEPHONES

25X1 - INSTALLED BY END OF

FY-81 :

FY-82 :

- PLANNED TO BE INSTALLED BY END OF

FY-83 :

FY-84 :

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DOMESTIC NETWORKS DIVISION  
ONGOING RECAPITALIZATION AND TERMINAL EQUIPMENT REQUIREMENTS  
FY-1984 BUDGETARY REQUIREMENTS

MISCELLANEOUS REPAIR AND RETURN		\$ 20K
TERMINAL MAINTENANCE SUPPORT CONTRACT		363K
RENOVATIONS, INSTALLATION MATERIALS AND ANCILLARY EQUIPMENT		298K
PROCUREMENT OF OPTICAL CHARACTER READERS	12 at 55K	660K
PROCUREMENT OF FACSIMILE UNITS FOR DDS&T NEW STATIONS	27 at 55K	1,350K
PROCUREMENT COMMUNICATIONS TERMINALS TRACOR OR WANG	92 at 16K 46 at 32K	<u>1,472K</u>
TOTAL		\$4,163K

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## DOMESTIC TERMINAL PROGRAM

FACILITIES

## CLASS I FACILITIES (CRAFT ASSOCIATED):

25X1

	UPGRADE:	23	NEW 15
	UPGRADE:	<u>17</u>	<u>NEW -</u>
TOTAL		40	NEW 15

## CLASS II FACILITIES (NARRATIVE EXCHANGE):

25X1

STAFF UPGRADE:	19	NEW -
CONTRACTOR UPGRADE:	50	NEW 15
UPGRADE:	9	NEW 34
CONTINGENCY:	<u>-</u>	<u>NEW 6</u>
TOTAL	78	NEW 55

## CLASS III TERMINALS (METROPOLITAN FACILITIES):

TELECOM OPERATIONS	
CENTER UPGRADE:	29
OUTBUILDINGS UPGRADE:	19
OTHER HQS AREAS UPGRADE:	<u>3</u>
TOTAL	51

## CLASS IV FACSIMILE:

UPGRADE:	23	NEW 217
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DOMESTIC TERMINAL PROGRAM

THE NEED

MAINTENANCE:

FAILURES INCREASING  
PARTS AVAILABILITY  
TECHNICIAN TIME

AVAILABILITY:

NEW FACILITIES DELAYED  
SINGLE TERMINAL OPERATIONS

OPERATIONAL FEATURES:

DIFFICULT TO OPERATE  
LABOR INTENSIVE  
100 WPM (75BPS) LIMITED  
NOT COMPATIBLE WITH CRAFT

OPERATIONAL PRIORITIES:

25X1   
REDUCE DEMANDS FOR PROFESSIONAL  
COMMUNICATORS  
25X1 SUPPORT TO  PROGRAMS  
INCREASE RELIABILITY

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IMPLEMENTATION PLAN

	FY82	83	84	85	86	87	88
TERMINAL SELECTION							
TERMINAL PROCUREMENT		200* (100)	92	48	20		
SITE SURVEY & PREPARATION							
KG-84 DELIVERY		77	156	555			
UPGRADE/NEW							
TYPE I		12	24	19			
TYPE II		5	30	30	35	33	
TYPE III		29	10	12			
FACSIMILE SELECTION							
TYPE IV							
FACSIMILE PROCUREMENT				27	48	45	40
FACSIMILE INSTALLATION					40	40	40
STU-II DELIVERY							

\*BUDGETED AT \$8K PER TERMINAL

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## PROJECTS SUPPORTED IN MESSAGE HANDLING SYSTEMS PROGRAM

- SOFTWARE MAINTENANCE CONTRACT SUPPORT FOR  
THE CABLE DISSEMINATION SYSTEM
  
- SOFTWARE SUPPORT FOR EXISTING COMPUTER BASED  
MESSAGE HANDLING SYSTEMS, SUCH AS
  - AUTOMATED FIELD TERMINAL
  - UNATTENDED OPERATION TERMINAL
  - OPTICAL CHARACTER READERS
  - TERP-IIA
  
- AUTOMATION OF THE  FACILITY
  
- THE MESSAGE HANDLING FACILITY

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## MESSAGE HANDLING FACILITY

DESCRIPTION: A COMPUTER SYSTEM TO RECEIVE ALL CABLES SENT TO CIA AND DISSEMINATE THEM THROUGHOUT CIA HEADQUARTERS.

OBJECTIVE: REPLACE TWO OBSOLESCECENT COMPUTERS WHICH ARE NO LONGER COMMERCIALY SUPPORTED WITH AN INTEGRATED SYSTEM EXPLOITING CURRENT TECHNOLOGY.

CUSTOMERS: ALL AGENCY WATCH OFFICES  
SAFE SYSTEM  
ALLSTAR SYSTEM  
PRINTING AND REPRODUCTION SYSTEMS  
'OUT' BUILDINGS

APPROACH: AS A JOINT DEVELOPMENT WITH THE OFFICE OF DATA PROCESSING, THIS PROJECT WILL MAKE USE OF HARDWARE AND SOFTWARE ACQUIRED SPECIFICALLY FOR THE PROJECT AS WELL AS IN-PLACE AUTOMATED DATA PROCESSING EQUIPMENT.

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MESSAGE HANDLING FACILITY  
FY-84 BUDGET

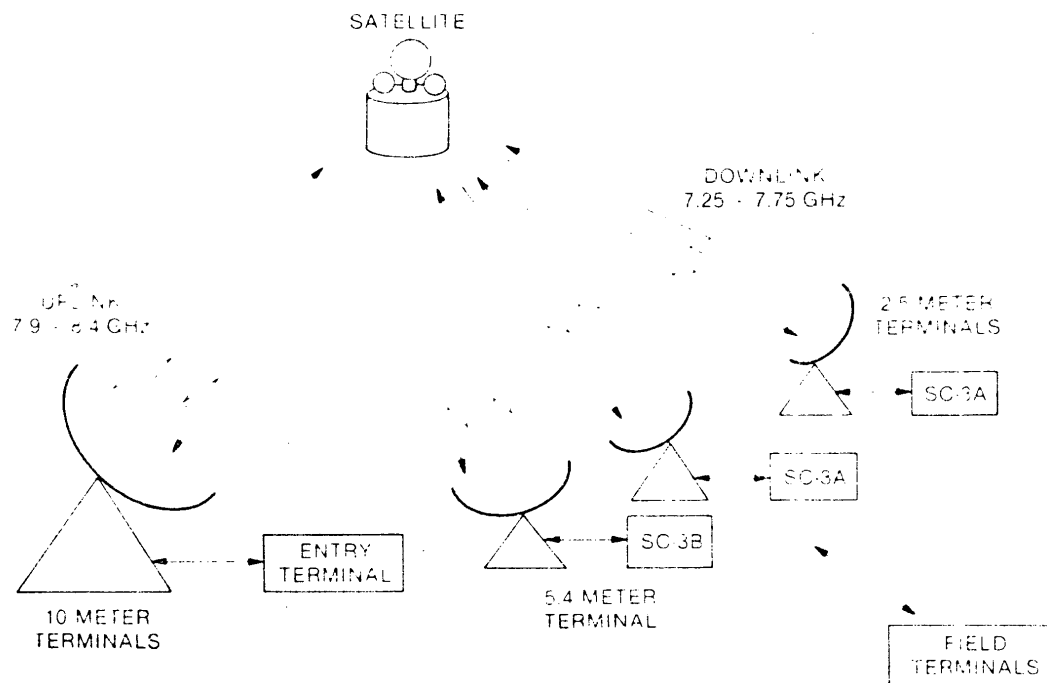
## HARDWARE

DISK DRIVES	\$1,000,000	
TERMINALS	600,000	
COMMUNICATION PROCESSORS	400,000	
OTHER	<u>632,000</u>	
	2,632,000	\$2,632,000
PERSONAL SERVICES CONTRACT		800,000
OTHER (SOFTWARE LICENSES, ETC.)		<u>92,000</u>
TOTAL:		\$3,524,000

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## SATELLITE COMMUNICATIONS NETWORK



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## SKYLINK

### TERMINAL STATUS

#### OPERATIONAL

SC - 1 Terminals ..... 22

SC - 3 Terminals..... 31

SC - 4 Entry Terminals ..... 6

TOTAL.....59 *active*

#### SC-3 PROCUREMENT

Procured Through FY - 81.....49

On Order FY - 82/FY - 83..... 25

TOTAL.....74

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## SKYLINK FY-84 BUDGET

### \$11, 274K

\$1,519K. \_\_\_\_\_ CONTRACTUAL SERVICES

\$1,070K \_\_\_\_\_ INSTALLATION CONTRACTS

\$225K \_\_\_\_\_ EQUIPMENT MODIFICATIONS

\$100K \_\_\_\_\_ REMOTE CONTROL STUDY

\$151K \_\_\_\_\_ SCIENTIFIC AND ENGINEERING SUPPORT

\$1,020K \_\_\_\_\_ SUPPLIES AND MATERIALS

\$817K \_\_\_\_\_ SPARE PARTS FOR FIELD AND ENTRY STATIONS

\$173K \_\_\_\_\_ TOOLS AND HARDWARE FOR SC-3 INSTALLATIONS

\$12,765K \_\_\_\_\_ EQUIPMENT

\$5,853K \_\_\_\_\_ SC-3 TERMINALS ( 9 EACH )

\$1,570K \_\_\_\_\_ SC-3 TRANSPORTABLE TERMINALS (2 EACH)

\$510K \_\_\_\_\_ CARRIER MEASUREMENT SYSTEM FOR OPANA

\$352K \_\_\_\_\_ RADOMES TEST EQUIPMENT (9 EACH)

\$390K \_\_\_\_\_ HIGH SPEED MODEMS (6 SETS)

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#### PROBLEMS

- OBSOLETE SWITCHING SYSTEMS
- NO ERROR CONTROL
- NO ACCOUNTABILITY IN BACKBONE DATA NETWORK
- LIMITED CIRCUIT CAPACITY
  - SATELLITE POWER
  - LEASE COSTS
  - LIMITED HF BANDWIDTH
- DEDICATED CIRCUITS REQUIRED FOR NON-MESSAGE SERVICES
- OLD, SINGLE PURPOSE MESSAGE SWITCHES
- MANUAL CIRCUIT ESTABLISHMENT FOR PART TIME SERVICES  
(FACSIMILE, CONVERSATIONAL, INTERACTIVE)
- MANUAL MESSAGE PROCESSING IN FIELD
- NO FLEXIBILITY OR EXPANDABILITY

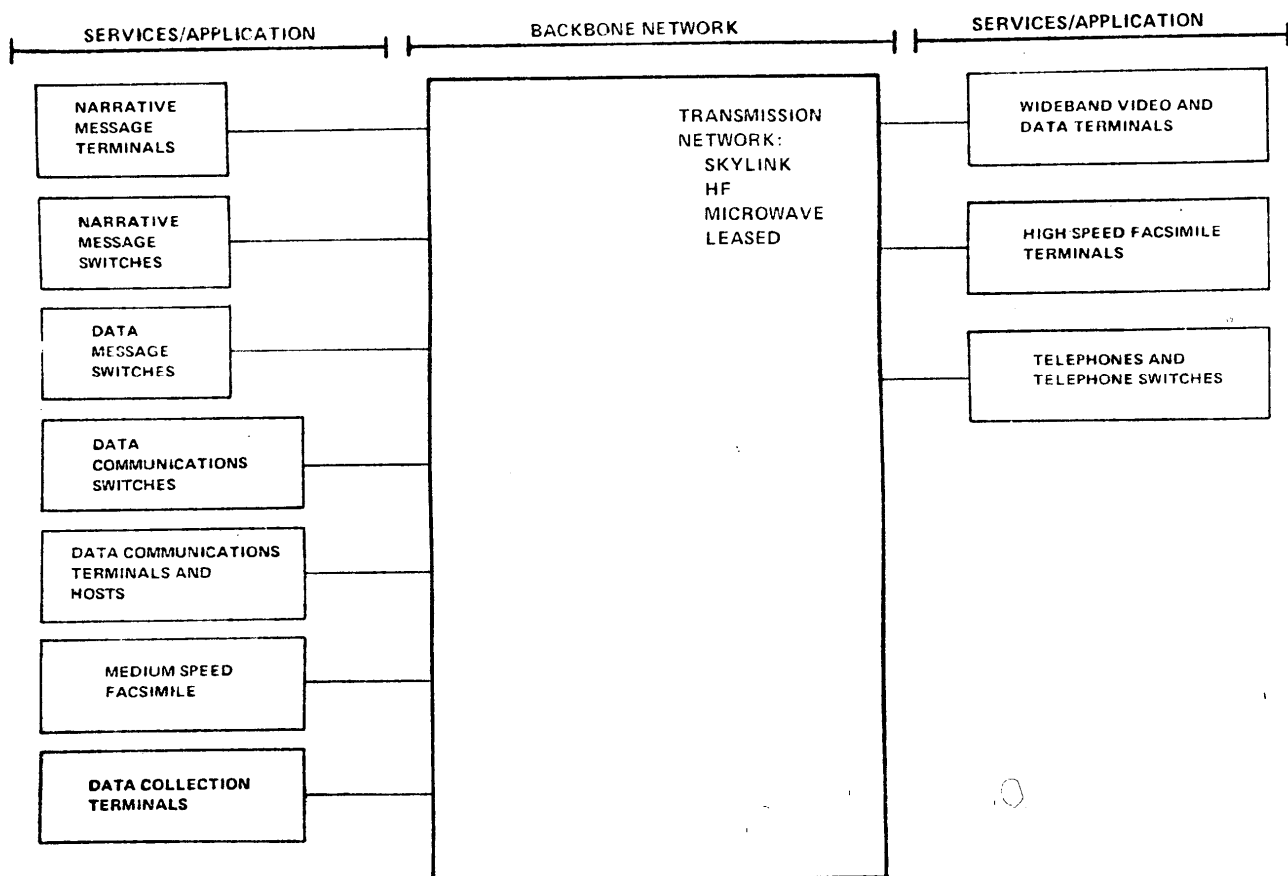
**ENVIRONMENT**

- **RAPID ADVANCES IN ELECTRONICS**
- **INCREASING USE OF DATA PROCESSING APPLICATIONS**
- **NEED FOR CENTRALIZED CONTROL AND STORAGE**
- **INCREASINGLY COMPLEX ORGANIZATIONS AND OPERATIONS**
- **OLD, SINGLE PURPOSE, LIMITED CAPACITY EXISTING SYSTEMS**

## SOLUTIONS

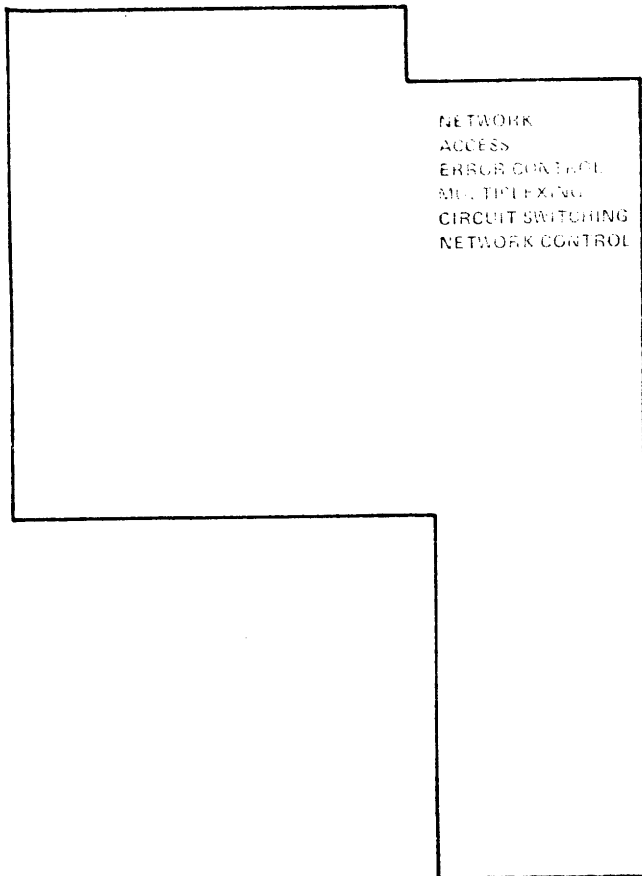
- SERVICES
  - NARRATIVE MESSAGE
  - DATA MESSAGE
  - BULK DATA
  - TRANSACTIONAL
  - INTERACTIVE
  - CONVERSATIONAL
- PACKET SWITCH NETWORK
  - END TO END ACCOUNTABILITY
  - CONNECTIVITY
  - ERROR CONTROL
- SYSTEM MANAGEMENT
  - NETWORK CONTROL
  - SERVICE CONTROL

## NETWORK OVERVIEW





## MERCURY



NETWORK  
ACCESS  
ERROR CONTROL  
MULTIPLXING  
CIRCUIT SWITCHING  
NETWORK CONTROL

EXPLANATION OF OVERALL OBJECTIVES  
AND  
COMPARISONS OF NETWORK:

PRESENT	FUTURE
SINGLE PURPOSE	MULTIPURPOSE, MULTIUSER, MULTIFORMAT
DISTRIBUTED	CENTRALIZED WITH DISTRIBUTED BACKUP
FREE RUNNING	CONTROLLED
CODE SENSITIVE	CODE AND FORMAT TRANSPARENT
SENSITIVE TO CHANNEL DISTURBANCES	ESSENTIALLY ERROR FREE, ISOLATES USER FROM CHANNEL/EQUIPMENT PROBLEMS
MANUAL NETWORK CONTROL	AUTOMATIC NETWORK CONTROL
MANUAL MESSAGE PREPARATION	SIMPLIFIED/ AUTOMATED PREPARATION

## MERCURY SYSTEM CONTRACTOR RELATIONSHIP

25X1

- SYSTEM INTEGRATION
- GENERAL SERVICES
- BACKBONE NETWORK
- MESSAGE PROCESSING SYSTEM

25X1  
25X1

- PACKET SWITCHING HARDWARE
- NETWORK ACCESS SYSTEM HARDWARE
- LINK LEVEL SOFTWARE

25X1

- PAD SOFTWARE
- HF PROTOCOL

- MESSAGE RELAY  
SYSTEM

MERCURY SUPPORT CONTRACTORS

25X1

- OVERALL TECHNICAL REVIEW
- SYSTEM ENGINEERING ASSISTANCE

25X1

- SOFTWARE MANAGEMENT ASSISTANCE

25X1

- TEMPEST GUIDANCE, ASSISTANCE, AND TESTING

CONTRACT DETAILS

- CONTRACT TYPE: COST PLUS AWARD FEE

- BASE CONTRACT COST:

Cost: \$27,230,000

3% FIXED FEE: 813,000

10% AWARD FEE: 2,710,000

TOTAL: \$30,753,000

CONTRACT DETAILS, CONTINUED

25X1 -  SUBCONTRACT THROUGH FUNCTIONAL DESIGN:

Cost: \$1,781,685

8.5% FIXED FEE: 157,298

TOTAL: \$1,938,979

25X1 - ESTIMATED  CONTRACT AFTER FUNCTIONAL DESIGN:

\$6,500,000

# PROJECTED SCHEDULE

<u>ACTIVITY</u>	<u>SCHEDULE</u>	
	<u>MONTHS</u>	<u>DATE</u>
- START OF WORK	0	AUG 81
*- APPROVAL OF IMPLEMENTATION ARCHITECTURE DOCUMENT	15	NOV 82
*- APPROVAL OF FUNCTIONAL DESIGN SPECIFICATION	20	APR 83
- CRITICAL DETAILED DESIGN REVIEW, BUILD 1	22	JUN 83
- CRITICAL DETAILED DESIGN REVIEW, BUILD 6 (LAST)	33	MAY 84
*- APPROVAL OF TOTAL DETAILED DESIGN SPEC.	34	JUN 84
- FIRST NSC, PSS, 3 NASs INSTALLED	41	JAN 85
- ACCEPTANCE TESTING OF NSC, PSS, NASs COMPLETE	46	JUN 85
- SECOND NSC INSTALLED, 7 NASs DELIVERED	48	AUG 85
*- FINAL SYSTEM ACCEPTANCE COMPLETE	51	NOV 85

\*AWARD FEE MILESTONES

MERCURY DELIVERABLES

UNDER SYSTEM CONTRACT:

- 2 NETWORK SERVICE CENTERS
- 1 PACKET SWITCHING SYSTEM
- 10 NETWORK ACCESS SYSTEMS

OPTION OF PRODUCTION QUANTITIES (PROCUREMENT BEGINNING IN FY 1986)

- 1 NETWORK SERVICE CENTER (\$3,500,000)
- 3 PACKET SWITCHING SYSTEMS (\$111,000 EACH)
- 160 NETWORK ACCESS SYSTEMS (\$92,500 AVERAGE COST EACH)

TOTAL PROJECTED PRODUCTION COST IS \$18,633,000